

## **SPECIFIC GRAVITY FLASKS VERIFICATION PROCEDURE #49**

June 4, 2000

Equipment Checked: **SPECIFIC GRAVITY FLASKS (AASHTO T 84)**

Purpose:

This method provides instructions for calibrating specific gravity flasks.

Inspection Equipment Required:

1. Balance 10,000 g. capacity, readable to a minimum of 0.1g.
2. 1000 ml. flask filled with water at a temperature of  $73.4 \pm 3^{\circ}\text{F}$  or  $23.0 \pm 1.7^{\circ}\text{C}$ .
3. Calibrated thermometer.
4. Glass plate

Tolerance:

Results of two calibrations should agree within 0.2 grams.

Procedure:

1. Over fill the flask with distilled water at  $73.4 \pm 3^{\circ}\text{F}$  ( $23.0 \pm 1.7^{\circ}\text{C}$ ) so it is convex above the brim.
2. Carefully slide cover plate over the brim of flask.
3. Make sure flask is free of any air bubbles. Dry the outside of the flask with an absorbent paper towel.
4. Record the weight of the flask, water, and cover plate.
5. Empty flask and repeat step's 1 through 4.

## EQUIPMENT CALIBRATION RECORD

### Calibration Procedure No. 49 Specific Gravity Flasks (AASHTO T 84)

<b>Date:</b>	<b>Calibrated by:</b>
<b>Previous Calibration Date:</b>	<b>Next Due:</b>
<b>Frequency:</b> 12 months	
<b>Do results agree within 0.2 grams?</b> Yes _____ No _____	
<b>Action Recommended:</b> Repair _____ Replace _____ None _____ Other _____	
<b>Calibration Equipment</b>	<b>Serial Number</b>
Thermometer readable to 0.1° F or 0.1° C.	
Balance	

Flask ID	Glass plate ID	Weight No.1	Weight No.2